

**Listing of Claims:**

Claim 1. (Canceled)

Claim 2. (Previously presented) A card according to claim 24, wherein the radio frequency modulation circuitry comprises a frequency synthesizer generating the radio frequency signals.

Claim 3. (Original) A card according to claim 2, wherein the frequency generated by the frequency synthesizer is set by a controller on the circuit board.

Claim 4. (Original) A card according to claim 2, wherein the frequency generated by the frequency synthesizer is set by conveying instructions via the computer bus.

Claim 5. (Canceled)

Claim 6. (Canceled)

Claim 7. (Previously presented) A card according to claim 24, wherein the modulation circuitry modulates the transmitted signals according to a predefined protocol in accordance with a command conveyed to the card via the industry-standard bus.

Claim 8. (Previously presented) A card according to claim 24, wherein the modulation circuitry comprises an encoder which encoded error correction into the transmitted signals according to a predefined protocol in accordance with a command conveyed to the card via the industry-standard bus.

Claim 9. (Previously presented) A card according to claim 24, and comprising an auxiliary connector through which the card is connected to at least one other card located within the computer, such that signals pass between the cards without passing through the industry-standard bus.

Claims 10-23 (Canceled)

Claim 24. (Currently Amended) A card for communicating to and from a personal computer through a very small aperture terminal (VSAT), comprising:

(a) a circuit board which plugs into the personal computer and which is coupled to exchange data via an industry-standard bus in the personal computer; and

(b) radio frequency modulation circuitry on the circuit board, which receives the data and transmits radio frequency signals responsive thereto,

(c) a connector; ~~through which connecting the card to a~~ DC source external to the card wherein the DC source powers the VSAT,

wherein the card is connected to said VSAT, said VSAT comprising an upconverter and a power amplifier for transmitting data to an earth-orbiting satellite from said card.

Claim 25. (Currently Amended) A transceiver for communicating to and from a personal computer through a very small aperture terminal (VSAT), comprising:

(a) a transmitter card which plugs into said personal computer and which is coupled to exchange data via an industry-standard bus in said personal computer, said transmitter card transmitting data from said personal computer to an earth-orbiting satellite via said VSAT, wherein said transmitter card further comprises a connector connecting the transmitter card to a DC source external to the transmitter card wherein the DC source powers the VSAT;

(b) a receiver card which plugs into said personal computer and is coupled to exchange data via said industry-standard bus, said receiver card receiving signals from said VSAT and converting the received signals to data for transfer via said industry-standard bus; and

(c) an auxiliary bus connecting the transmitter card to the receiver card,  
wherein said VSAT comprises an upconverter and a power amplifier and transmits RF signals received from said circuit board.

Claim 26. (Currently Amended) A card for communicating to and from a personal computer through a very small aperture terminal (VSAT), comprising:

(a) a circuit board which plugs into the personal computer and which is coupled to exchange data via an industry-standard bus in the personal computer wherein said circuit board includes a transmitter card and a connector connecting the transmitter card to a DC source external to the transmitter card wherein the DC source powers the VSAT; and

(b) radio frequency modulation circuitry on the circuit board, which receives the data from an earth-orbiting satellite received by said VSAT and transmits radio frequency signals to said an earth-orbiting satellite via an upconverter and power amplifier in said VSAT.

Claim 27. (Previously presented) A card according to claim 26, wherein the radio frequency modulation circuitry comprises a frequency synthesizer generating the radio frequency signals.

Claim 28. (Previously presented) A card according to claim 27, wherein the frequency generated by the frequency synthesizer is set by a controller on the circuit board.

Claim 29. (Previously presented) A card according to claim 27, wherein the frequency generated by the frequency synthesizer is set by conveying instructions via the industry-standard bus.

Claim 30. (Canceled)